# Author Index of Volume 56

Abdel Rahim, F., 369
Abdel-Aziz, M. M., 369
Armand, X., 323

Basu, S., 339
Batmanghelich, S., 249
Bera, S. Ch., 195
Bhattacharya, S., 81
Bhowmik, B. B., 81
Bolte, M., 387
Bonesi, S. M., 55
Bonneau, R., 323
Borderie, B., 13
Bose, S. K., 397
Brezova, V., 125

Castel, N., 219, 239
Ceppan, M., 125
Chen, D.-W., 73
Clay, R. S., 1, 139
Cosa, J. J., 267

Das, U., 397
Davi, E., 113
De Schryver, F. C., 313
Deumie, M., 295
Durocher, G., 165

El-Assy, N. B., 369
El Baraka, M., 295
El-Naggar, A. M., 369
Erra-Balsells, R., 55

Farmer, L., 165
Feng, L., 89
Fischer, E., 219, 239

Ganguly, T., 165
Garrera, H. A., 267
Gerasimov, O. V., 275
Gravel, D., 165

Hall, B., 35
Hall, C. D., 255
Hébert, Ph., 323
Huizer, A. H., 183
Husain, D., 1, 139

Ittah, Y., 239

Jacques, P., 159
Jakob, A., 219, 239
Jana, A. K., 81
Jin, Z.-S., 89

Kagiya, T., 359
Kaneko, M., 287
Kar, R. K., 195
Kaupp, G., 375, 381
Kim, D. W., 227
Kim, M. S., 227
Kira, A., 287
Kunjappu, J. T., 365

Lage, E. G., 313
Lampidis, T. J., 295
Lang, V. I., 149
Lapcik, L., 125
Laplante, J. P., 13
Lavabre, D., 13
Lemmetyinen, H., 43
Levy, G., 13
Lewis, J., 25
Li, Q.-L., 89
Lin, S. H., 25
López Arbeloa, F., 313
López Arbeloa, I., 313
López Arbeloa, T., 313
Luetke, W., 219
Lymar, S. V., 275

Mailhot, G., 387
Marquardt, T., 381
Mialocq, J. C., 323
Micheau, J. C., 13
Miyadzu, H., 359
Moore, T. A., 25
Morand, J. P., 323
Muszkat, K. A., 219, 239

Nageswara Rao, N., 101
Nieminen, K., 43
Niiranen, J., 43
Nishimoto, S., 359

Ohtani, B., 359

Paik, Y. H., 349
Palmisano, L., 113
Pant, D., 207
Pant, D. D., 207
Parmon, V. N., 275
Paul, A. K., 399
Plagmann, M., 381
Previtali, C. M., 267

Ramaraj, R., 287
Rauch, K., 219

Sarkar, B., 397
Sauerland, O., 375, 381
Sclafani, A., 113
Sharpe, N. W., 255
Shen, T., 73
Shi, M.-Y., 89
Shim, S. C., 227, 349
Smith, K., 249
Srivastava, T. S., 399

Taqui Khan, M. M., 101
Tripathi, H. B., 207

van Eijk, A. M. J., 183
Varma, C. A. G., 183
Venkatesan, R., 399
Vesely, M., 125
Viallet, P., 295
Vodny, S., 125

Wan, P., 35
Wang, H., 89
Weeks, I., 249
Woodhead, J. S., 249

Xu, H.-J., 73

Ye, M., 359

Zelent, B., 165
Zhao, Z.-G., 73
Zittel, P. F., 149

Elsevier Sequoia/Printed in The Netherlands

# Subject Index of Volume 56

Absorption
photophysical and photochemical properties of rhodamine 6G in alcoholic and aqueous sodium dodecylsulphate micellar solutions, 323
photophysical properties of rhodamines with monoethylamino groups R19 and R6G in water–ethanol mixtures, 313
studies on the conformational equilibrium of *trans*-2-styrylquinoline, 227
studies on the photophysical properties of some 2,7-dimethoxycarbazoles in various environments by steady state and time-resolved spectroscopic methods. Part 1. Synthesis, absorption and fluorescence spectra at room temperature, 165
Absorption spectra
photophysics and photochemistry of ring-fluorinated stilbenes, 219
Acetylcarbazole
product study of the photolysis of *N*-acetyl carbazole in ethanol and dichloromethane solution. Part I, 55
Acrylamide
bimetallic systems for acrylamide photosensitized polymerization. Part II. $Cr^{VI}$–$Cu^{II}$, a suitable system to control the polymerization process, 387
Aliphatic amines
radical anion and Meisenheimer complexes arising from interaction of the hydroxyl ion or aliphatic amines with photoexcited 4-nitroveratrole studied by electron spin resonance and time-resolved resonance Raman scattering, 183
Alkyl chloride
absolute rate data for reactions of atomic caesium with alkyl chlorides determined by time-resolved atomic resonance absorption spectroscopy, 1
7-Amino-4-methylcoumarin
photochemical consequences of stabilization of laser dye 7-amino-4-methylcoumarin (C120) by 1,4-diazabicyclo-[2.2.2.]octane, 365
Arylmethanols
photosolvolysis of arylmethanols in aqueous sulphuric acid solution, 35

Benzophenone
$^3$CTC as the main step in the quenching of $^3$BP by electron and hydrogen donors, 159
single run benzophenone–benzhydrol actionometry in an exponential dilution photochemical microreactor, 13

Caesium
absolute rate data for reactions of atomic caesium with alkyl chlorides determined by time-resolved atomic resonance absorption spectroscopy, 1
Calcium
kinetic study of ground state atomic calcium, $Ca(4s^2(^1S_0))$, at elevated temperatures by time-resolved atomic resonance absorption spectroscopy at $\lambda = 422.7$ nm ($4^1P \leftarrow 4^1S_0$), 139
Charge transfer
$^3$CTC as the main step in the quenching of $^3$BP by electron and hydrogen donors, 159
*cis*-Di(2-naphthyl)-ethylene
photocyclization of *cis*-di(2-naphthyl)-ethylene and its fluorine derivatives: formation of two coloured interconvertible modifications of dibenzo-4a,4b-dihydrophenanthrene derivatives, 239
Collision-complex model
application of the collision-complex model to the photophysical processes of singlet oxygen in liquids, 25
Conductivity
photophysical and photochemical properties of rhodamine 6G in alcoholic and aqueous sodium dodecylsulphate micellar solutions, 323
Cryptands
photophysical and photochemical studies on the lanthanide complexes of metallocene-containing cryptands, 255

Elsevier Sequoia/Printed in The Netherlands

2,7-Dimethoxycarbazoles
studies on the photophysical properties of some 2,7-dimethoxycarbazoles in various environments by steady state and time-resolved spectroscopic methods. Part 1. Synthesis, absorption and fluorescence spectra at room temperature, 165
Dinitrogen
stepwise reduction of coordinated dinitrogen to ammonia via diazinido and hydrazido intermediates on a visible light irradiated $Pt/CdS \cdot Ag_2S \cdot RuO_2$ particulate system suspended in an aqueous solution of K[Ru(EDTA-H)Cl]$2H_2O$, 101

EDTA
storage solar cell consisting of phenosafranin–EDTA in surfactant solution, 81
Electron spin resonance
radical anion and Meisenheimer complexes arising from interaction of the hydroxyl ion or aliphatic amines with photoexcited 4-nitroveratrole studied by electron spin resonance and time-resolved resonance Raman scattering, 183
Electron transfer
solvent effect and activation parameters in the oxidative quenching of excited *tris*(2,2′-bipyridinium)ruthenium(II) by organic acceptors, 267
Eosin
effect of pH on the photosensitizing ability of eosin – an intermediate study, 73
Equilibria
fluorimetric studies of solutions of pyronin dyes: equilibrium constants in water and partition coefficients in organic-solvent–water systems, 295
salt–base equilibrium and fluorescence of 3,4,5,3′,4′,5′-hexamethyl and 4,4′-dicarbethoxy-3,5,3′,5′-tetramethyldiphyrrylmethene hydrochlorides in the presence of triethylamine, 195
studies on the conformational equilibrium of *trans*-2-styrylquinoline, 227
Ethoxyethanol
photocatalytic oxidation of 2-ethoxyethanol in a water suspension of titanium dioxide, 125

Excitation
excited state solvation dynamics of 6-methoxyquinoline, 207

Fluorescence
fluorescence enhancement of tetrakis-(sulfonatophenyl) porphyrin in homogeneous and micellar solutions, 339
fluorimetric studies of solutions of pyronin dyes: equilibrium constants in water and partition coefficients in organic-solvent–water systems, 295
photophysical and photochemical properties of rhodamine 6G in alcoholic and aqueous sodium dodecylsulphate micellar solutions, 323
photophysical properties of rhodamines with monoethylamino groups R19 and R6G in water–ethanol mixtures, 313
photophysical properties of psoralens in micellar solutions, 349
salt–base equilibrium and fluorescence of 3,4,5,3′,4′,5′-hexamethyl and 4,4′-dicarbethoxy-3,5,3′,5′-tetramethyl dipyrrylmethene hydrochlorides in the presence of triethylamine, 195
studies on the conformational equilibrium of *trans*-2-styrylquinoline, 227
studies on the photophysical properties of some 2,7-dimethoxycarbazoles in various environments by steady state and time-resolved spectroscopic methods. Part 1. Synthesis, absorption and fluorescence spectra room temperature, 165
Fluoro stilbenes
photophysics and photochemistry of ring-fluorinated stilbenes, 219

Gas phase OCS
isotopically selective photodissociation of gas phase OCS at low temperature, 149

Hydrochlorides
salt–base equilibrium and fluorescence of 3,4,5,3′,4′,5′-hexamethyl and 4,4′-dicarbethoxy-3,5,3′,5′-tetramethyldipyrrylmethene hydrochlorides in the presence of triethylamine, 195
Hydroxyl ions
radical anion and Meisenheimer complexes arising from interaction of the

hydroxyl ion or aliphatic amines with photoexcited 4-nitroveratrole studied by electron spin resonance and time resolved resonance Raman scattering, 183

Irradiation
investigation of the relation between the photogenerated intermediate radicals and the photocorrosion of CdS in aqueous and aqueous ethanol dispersions of Pt/CdS, 89
Isotope enrichment
isotopically selective photodissociation of gas phase OCS at low temperatures, 149

Laser photolysis
oligomers via preparative laser photolysis, 381
photophysical and photochemical studies on the lanthanide complexes of metallocene-containing cryptands, 255
Laser irradiation
preparative laser photochemistry of perfluoroazoethane, 375

Magarai QS
colorimetric characterization of Magarai QS label for measurement of UV radiation, 369
Mercury
preparation and photochemical characteristics of the copolymer pendant tris(2,2′-bipyridine)ruthernium–mercury [$Ru(bpy)_3^{2+} \cdot Hg_2Cl_6^{2-}$] complex, 287
Metallic complexes
bimetallic systems for acrylamide photosensitized polymerization. Part II. $Cr^{VI}$–$Cu^{II}$, a suitable system to control the polymerization process, 387
Metallocene
photophysical and photochemical studies on the lanthanide complexes of metallocene-containing cryptands, 255
6-Methoxyquinoline
excited state solvation dynamics of 6-methoxyquinoline, 207
Methyl viologein
visible light induced reduction of methyl viologen in poly(vinyl alcohol) film containing *N*-methyl-2-pyrrolidone, 359

Naphthalene
photosubstitution of naphthalene and phenanthrene — similarities and differences in hydroxylation and cyanation mechanisms, 43

Oligomerization
oligomers via preparative laser photolysis, 381
Oxidation
photocatalytic oxidation of 2-ethoxyethanol in a water suspension of titanium dioxide, 125

Perfluoroazoethane
preparative laser photochemistry of perfluoroazoethane, 375
Phenanthrene
photosubstitution of naphthalene and phenanthrene — similarities and differences in hydroxylation and cyanation mechanisms, 43
Phenol
photocatalytic degradation of phenol in aqueous polycrystalline $TiO_2$ dispersions: the influence of $Fe^{3+}$, $Fe^{2+}$ and $Ag^+$ on the reaction rate, 113
Phenosafranin
storage solar cell consisting of phenosafranin–EDTA in surfactant solution, 81
Phenyl *N*-alkylacridinium 9-carboxylates
synthesis and chemiluminescent evaluation of a series of phenyl *N*-alkylacridinium 8-carboxylates, 249
Photo-dissociation
isotopically selective photodissociation of gas phase OCS at low temperatures, 149
Photo-isomerization
photophysics and photochemistry of ring-fluorinated stilbenes, 219
Photo-oxidation
water photo-oxidation sensitized by zinc(II) *meso*-tetrakis(*N*-methyl-4-pyridyl)porphine, 275
Photocatalysis
photocatalytic oxidation of 2-ethoxyethanol in a water suspension of titanium dioxide, 125
stepwise reduction of coordinated dinitrogen to ammonia via diazinido and hydrazido intermediates on a visible light irradiated $Pt/CdS \cdot Ag_2S \cdot RuO_2$ particulate system suspended in an

aqueous solution of K[Ru(EDTA-H)Cl]$2H_2O$, 101
Photocorrosion
investigation of the relation between the photogenerated intermediate radicals and the photocorrosion of CdS in aqueous and aqueous ethanol dispersions of Pt/CdS, 89
Photocyclization
photocyclization of *cis*-di(2-naphthyl)-ethylene and its fluorine derivatives: formation of two coloured interconvertible modifications of dibenzo-4a,4b-dihydrophenanthrene derivatives, 239
Photodecomposition
photophysical and photochemical properties of rhodamine 6G in alcoholic and aqueous sodium dodecylsulphate micellar solutions, 323
Photodegradation
photocatalytic degradation of phenol in aqueous polycrystalline $TiO_2$ dispersions: the influence of $Fe^{3+}$, $Fe^{2+}$ and $Ag^+$ on the reaction rate, 113
Photolysis
product study of the photolysis of *N*-acetyl carbazole in ethanol and dichloromethane solution. Part I, 55
Photoreduction
single run benzophenone–benzhydrol actinometry in an exponential dilution photochemical microreactor, 13
Photosensitization
effect of pH on the photosensitizing ability of eosin — an intermediate study, 73
Photosolvolysis
photosolvolysis of arylmethanols in aqueous sulphuric acid solution, 35
Photosubstitution
photosubstitution of naphthalene and phenanthrene — similarities and differences in hydroxylation and cyanation mechanisms, 43
Poly(vinyl alcohol) film
visible light induced reduction of methyl viologen in poly(vinyl alcohol) film containing *N*-methyl-2-pyrrolidone, 359
Polymerization
bimetallic systems for acrylamide photosensitized polymerization. Part II. $Cr^{VI}$–$Cu^{II}$, a suitable system to control the polymerization process, 387
Psoralens
photophysical properties of psoralens in micellar solutions, 349
Pyronin dyes
fluorimetric studies of solutions of pyronin dyes: equilibrium constants in water and partition coefficients in organic-solvent–water systems, 295

Quenching
$^3$CTC as the main step in the quenching of $^3$BP by electron and hydrogen donors, 159
application of the collision-complex model to the photophysical processes of singlet oxygen in liquids, 25
photochemical consequences of stabilization of laser dye 7-amino-4-methylcoumarin (C120) by 1,4-diazabicyclo-[2.2.2.]octane, 365
solvent effect and activation parameters in the oxidative quenching of excited tris(2,2′-bipyridinium)ruthenium(II) by organic acceptors, 267

Reduction
stepwise reduction of coordinated dinitrogen to ammonia via diazinido and hydrazido intermediates on a visible light irradiated $Pt/CdS \cdot Ag_2S \cdot RuO_2$ particulate system suspended in an aqueous solution of K[Ru(EDTA-H)Cl]$2H_2O$, 101
visible light induced reduction of methyl viologen in poly(vinyl alcohol) film containing *N*-methyl-2-pyrrolidone, 359
Resonance absorption
the kinetic study of ground state atomic calcium, $Ca(4s^2(^1S_0))$, at elevated temperatures by time-resolved atomic resonance absorption spectroscopy at $\lambda = 422.7$ nm ($4^1P \leftarrow 4^1S_0$), 139
Rhodamine 6G
photophysical and photochemical properties of rhodamine 6G in alcoholic and aqueous sodium dodecylsulphate micellar solutions, 323
Rhodamines
photophysical properties of rhodamines with monoethylamino groups R19 and R6G in water–ethanol mixtures, 313

Ruthenium
preparation and photochemical characteristics of the copolymer pendant tris(2,2′-bipyridine)ruthenium–mercury [$Ru(bpy)_2^{2+} \cdot Hg_2Cl_6^{2-}$] complex, 287

Sonochemical techniques
synthesis and chemiluminescent evaluation of a series of phenyl *N*-alkylacridinium 9-carboxylates, 249
Spectroscopy
absolute rate data for reactions of atomic caesium with alkyl chlorides determined by time-resolved atomic resonance absorption spectroscopy, 1
Spin-trapping
investigation of the relation between the photogenerated intermediate radicals and the photocorrosion of CdS in aqueous and aqueous ethanol dispersions of Pt/CdS, 89
Stabilization
photochemical consequences of stabilization of laser dye 7-amino-4-methylcoumarin (C120) by 1,4-diazabicyclo-[2.2.2.]octane, 365
Synthesis
studies on the photophysical properties of some 2,7-dimethoxycarbazoles in various environments by steady state and time-resolved spectroscopic methods. Part 1. Synthesis, absorption and fluorescence spectra at room temperature, 165
synthesis and chemiluminescent evaluation of a series of phenyl *N*-alkylacridinium 9-carboxylates, 249

Tetrakis(sulfonatophenyl) porphyrin
fluorescence enhancement of tetrakis-(sulfonatophenyl) porphyrin in homogeneous and micellar solutions, 339
Time-resolved
absolute rate data for reactions of atomic caesium with alkyl chlorides determined by time-resolved atomic resonance absorption spectroscopy, 1
*Trans*-2-styrylquinoline
studies on the conformational equilibrium of *trans*-2-styrylquinoline, 227
Tris(2,2′-bipyridinium)ruthenium(II)
solvent effect and activation parameters in the oxidative quenching of excited tris(2,2′-bipyridinium)ruthenium(II) by organic acceptors, 267
Triton X-100 micelles
fluorescence enhancement of tetrakis-(sulfonatophenyl) porphyrin in homogeneous and micellar solutions, 339

UV irradiation
colorimetric characterization of Magarai QS label for measurement of UV radiation, 369
photocyclization of *cis*-di(2-naphthyl)-ethylene and its fluorine derivatives: formation of two coloured interconvertible modifications of dibenzo-4a, 4b-dihydrophenanthrene derivatives, 239

Zinc porphyrin
water photo-oxidation sensitized by zinc(II) *meso*-tetrakis(*N*-methyl-4-pyridyl)porphine, 275